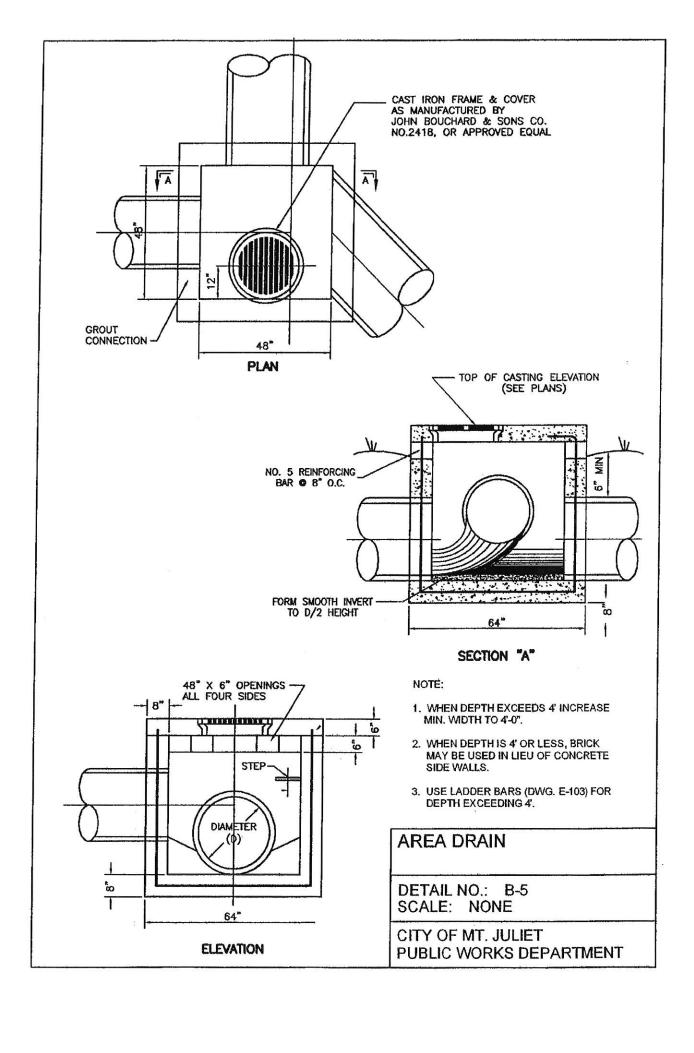
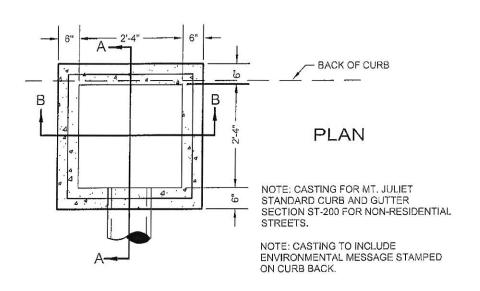
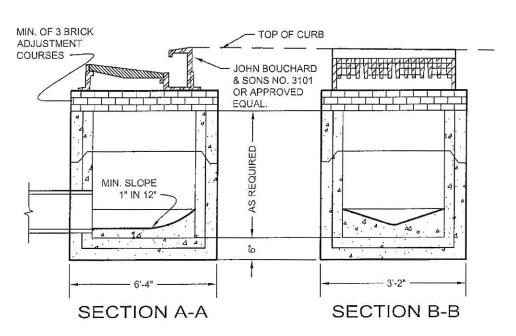
MT. JULIET PUBLIC WORKS INDEX OF DETAILS

<u>DETAIL</u>	DESCRIPTION
B-5 DR-105 DR-106 DR-110 DR-115 DR-132 DR-133 DR-134 DR-135 DR-150 DR-151 DR-151 DR-152 DR-153 DR-160 DR-161	AREA DRAIN SINGLE INLET (PRECAST) SINGLE INLET (PRECAST) (RESIDENTIAL) DOUBLE INLET (PRECAST) TRIPLE INLET (PRECAST) FRAME AND GRATE FOR FLUSH MOUNTED INLET SQUARE MANHOLE FRAME ROUND MANHOLE FRAME ROUND MANHOLE FRAME (RECEDDED TYPE) STRAIGHT ENDWALL FOR CIRCULAR PIPE STRAIGHT ENDWALL FOR ARCH PIPE CONCRETE HEADWALL WITH WINGS ENERGY DISSIPATING HEADWALL CONCRETE LINED DITCH TYPICAL STABILIZED DITCH SECTION
ST-101A ST-101B ST-102 ST-105 ST-106 ST-108	LOW & MEDIUM HIGH DENSITY URBAN RESIDENTIAL ACCESS LANE LOW & MEDIUM HIGH DENSITY URBAN RESIDENTIAL ACCESS STREET HIGH DENSITY URBAN RESIDENTIAL ACCESS LANE HIGH DENSITY URBAN ACCESS STREET LOW & MEDIUM DENSITY URBAN RESIDENTIAL COLLECTOR STREET HIGH DENSITY URBAN RESIDENTIAL COLLECTOR OR LOW & MEDIUM DENSITY URBAN COMMUNITY COLLECTOR
ST-109	HIGH DENSITY URBAN COLLECTOR STREET
ST-111	NON-RESIDENTIAL ACCESS STREET
ST-112	NON-RESIDENTIAL COMMUNITY COLLECTOR
ST-121	CUL-DE-SAC DETAILS
ST-200	STANDARD CURB WITH GUTTER
ST-201	CONCRETE POST CURB
ST-202	MOUNTABLE CURB WITH GUTTER
ST-203	HIGH PROFILE EXTRUDED CURB
ST-204	CONCRETE SIDEWALK AND HAUNCHED CURB
ST-210 ST-211	STANDARD CONCRETE SIDEWALK STANDARD CURB RAMP NOTES
ST-211	HAUNCHED CURB AND CONCRETE SIDEWALK (RESIDENTIAL)
ST-212	EXPANSION JOINT AND CONTROL JOINT
ST-260	UNDER DRAIN
ST-270	TRENCH REPAIR WITHIN ROADWAY
ST-271	TRENCH REPAIR OUTSIDE ROADWAY
ST-303	DETECTABLE WARNING DEVICE - TRUNCATED DOMES
ST-304	PARALLEL CURB RAMP
ST-305	PARALLEL CURB RAMP WITH A DROP LANDING – 2' GRASS STRIP
ST-306	CURB RAMPS AT MARKED CROSSINGS
ST-307	FRAME AND GRATE FOR VERTICAL CURB AND GUTTER
ST-313	RESIDENTIAL CONCRETE DRIVEWAY RAMP
ST-314	COMMERCIAL CONCRETE DRIVEWAY RAMP







CONCRETE: 4000 PSI AT 28 DAYS MIN. REINFORCEMENT: 0.14 SQ. IN./SQ. FT. GRADE 60 STEEL

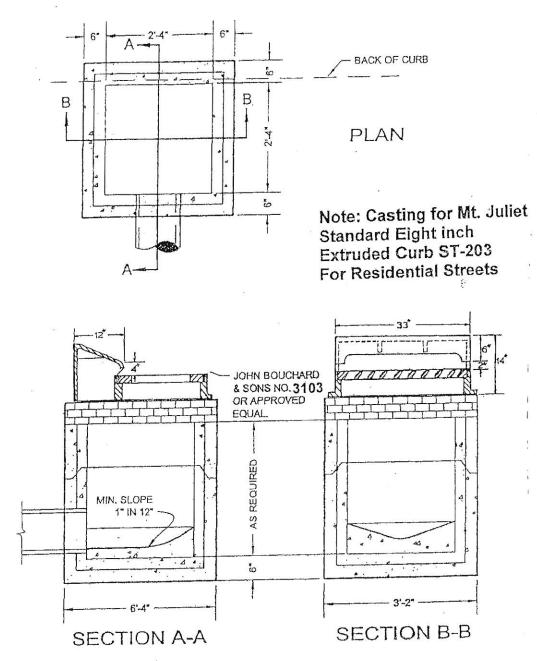
SINGLE INLET (PRECAST)

DETAIL NO.: DR-105

SCALE: NONE

CITY OF MT. JULIET

PUBLIC WORKS DEPARTMENT

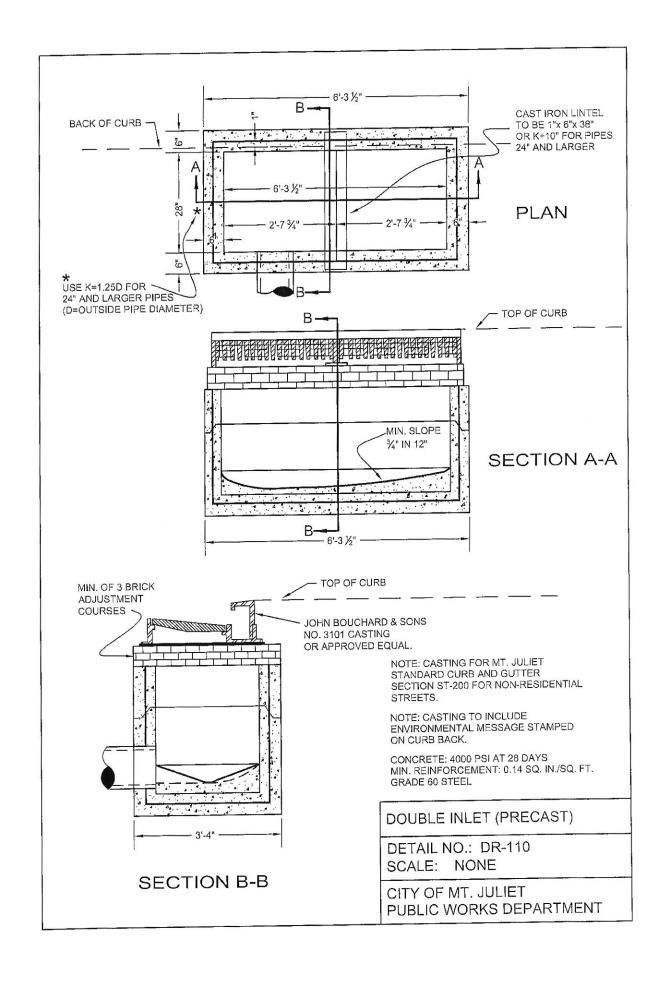


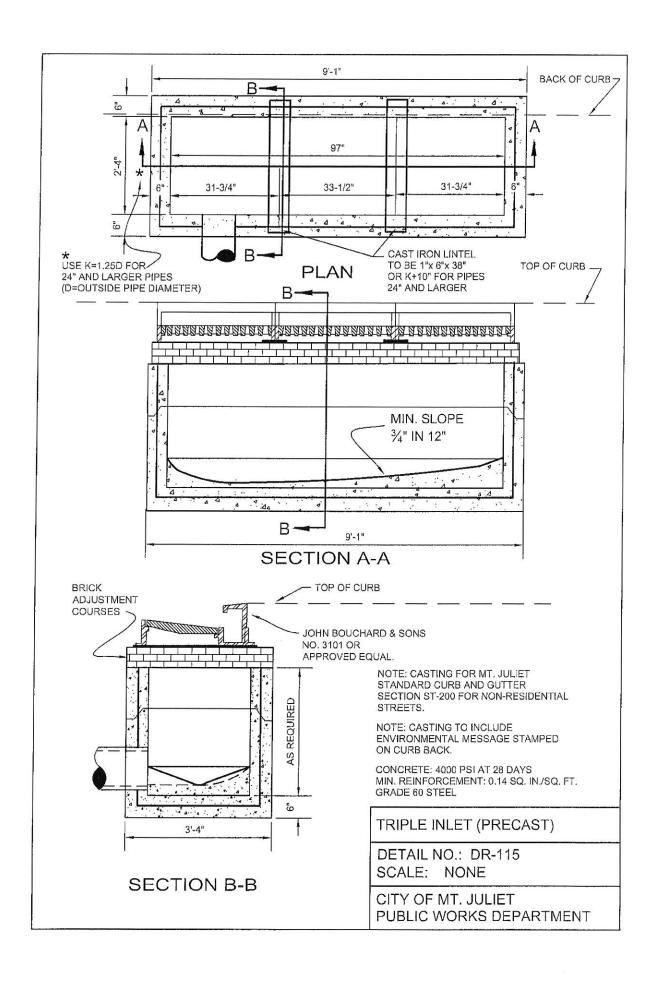
CONCRETE: 4000 PSI AT 28 DAYS MIN, REINFORCEMENT: 0.14 SQ. IN./SQ. FT. GRADE 60 STEEL

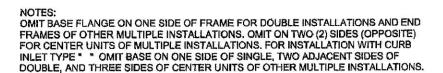
SINGLE INLET (PRECAST)

DETAIL NO .: DR-106

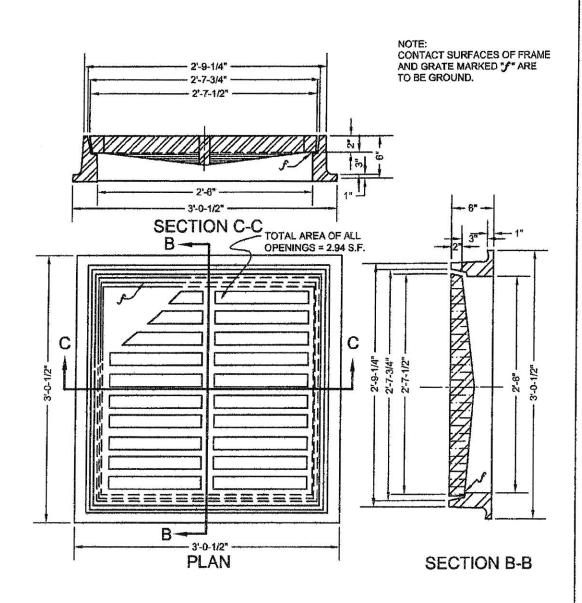
SCALE: NONE







CASTINGS TO BE CLEANED AND PAINTED WITH BITUMINOUS COATING AFTER MACHINING.

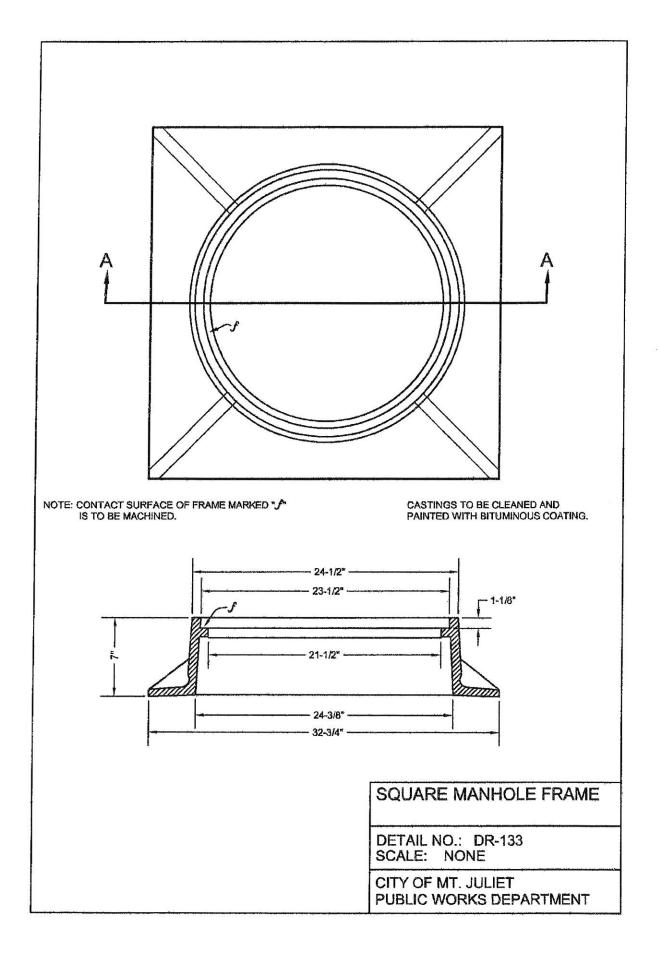


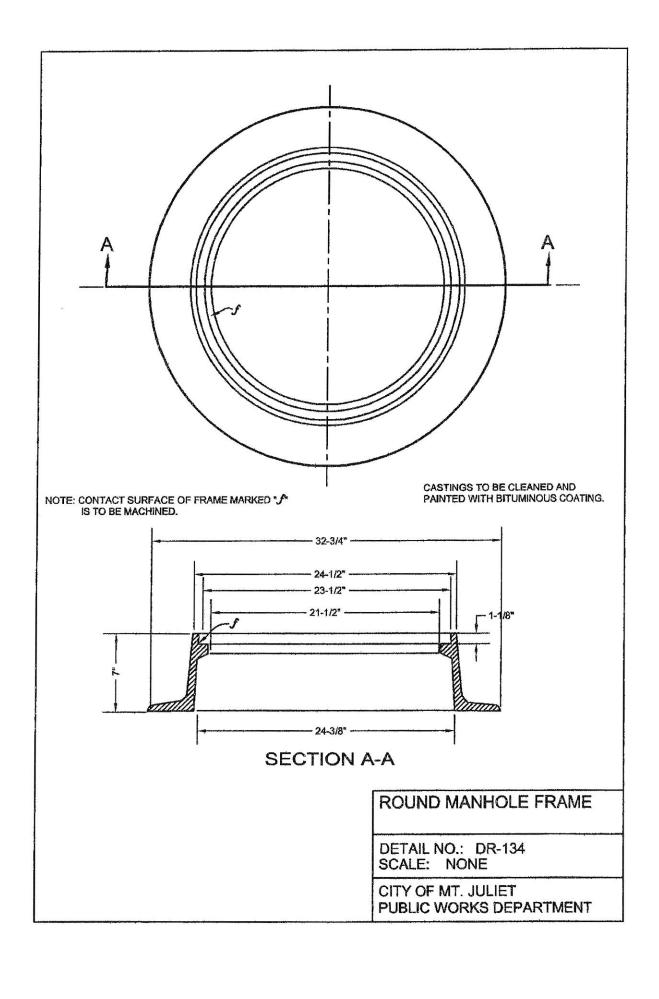
FRAME AND GRATE FOR FLUSH MOUNTED INLET

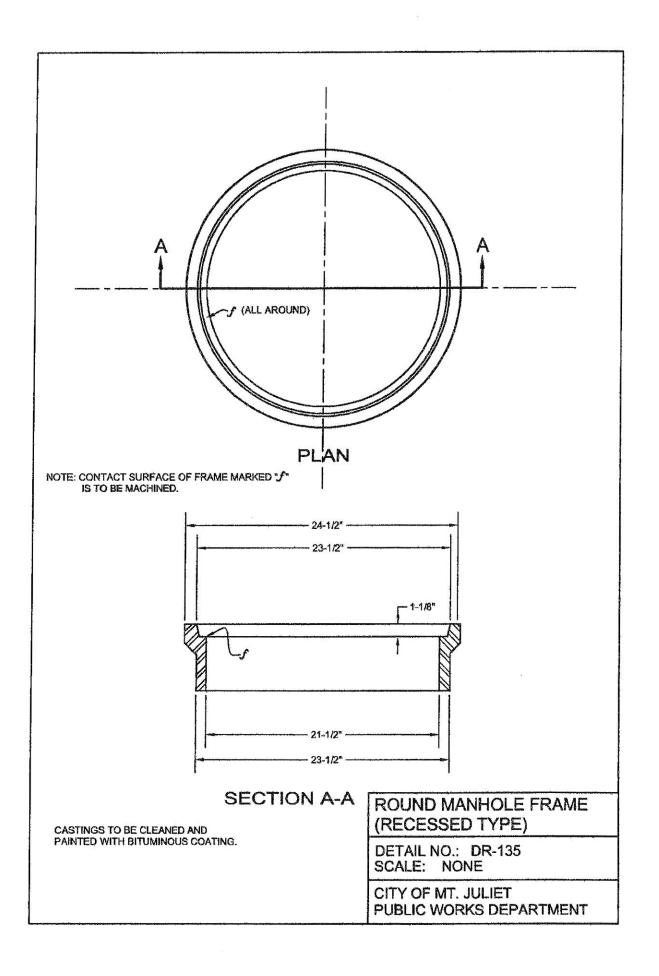
DETAIL NO.: DR-132 SCALE: NONE

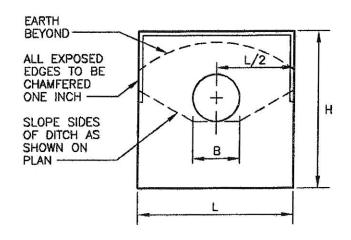
CITY OF MT. JULIET

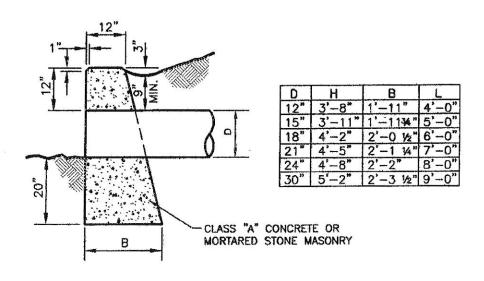
PUBLIC WORKS DEPARTMENT







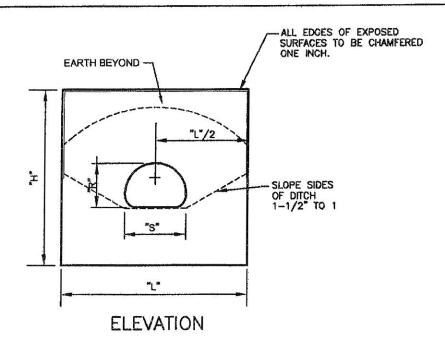


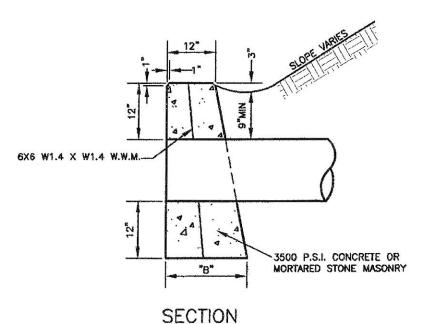


STRAIGHT ENDWALL FOR CIRCULAR PIPE

DETAIL NO.: DR-150

SCALE: NONE

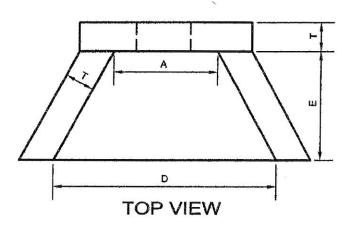


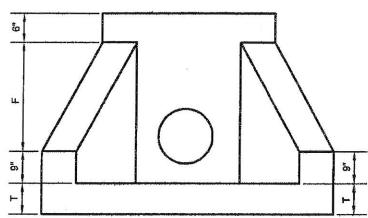


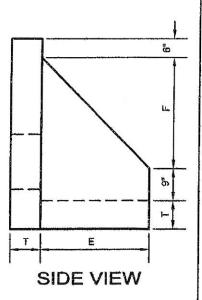
SxR	Н	В	L '4'-3"	
18"X11"	3'7"	1'-10 3/4"		
22"x13 1/2"	3'-9"	1'-11 1/4"		
26"x15 1/2"	4'-0"	2'-0"	6'-1"	
28" 1/2"x18"	4'-2"	2'-0 1/2"	6'-11"	
36 1/4"x22"	4'-6"	2'-1 1/2"		
43" x 27"	4'-11"	2'-2 3/4"	,	
50" x 31"	5'-3"	2'-3 3/4"	11'-11"	

STRAIGHT ENDWALL FOR ARCH PIPE

DETAIL NO.: DR-151 SCALE: NONE







FRONT VIEW

PIPE SIZE	Α	ם	E	F	T (MIN
15"	2'-6"	5'-0"	2'-6"	1'-9"	6"
18"	2'-6"	5'-0"	2'-6"	1'-9"	6"
21"	2'-6"	5'-0"	2'-6"	1'-9"	6*
24"	4'-0"	6'-6"	4'-0"	31-3"	6"
30"	4'-0"	6'-6"	4'-0"	3'-3"	6"
36°	5'-6"	8'-0"	3'-6"	4'-5"	6"
42"	5'-6"	8'-0"	3'-6"	41-5"	6"
48"	5'-6"	8'-0"	3'-6"	4'-5"	6"
54"	7'-0"	9'-5"	4'-6"	5'-9"	6"
60"	7'-0"	9'-5"	4'-6"	5'-9"	6"
66"	8'-6*	11'-0"	5'-6"	6'-11"	6°
72"	8'-6"	11'-0"	5'-6"	6'-11"	6"

CONCRETE:

4000 PSI AT 28 DAYS REINFORCED WITH NO. 4 BARS 10" C/C EACH WAY WITH WINGS AND TOE SLAB DOWELLED TO HEADWALL WITH NO. 5 BARS.

3/4" CHAMFER ON ALL EXPOSED EDGES.

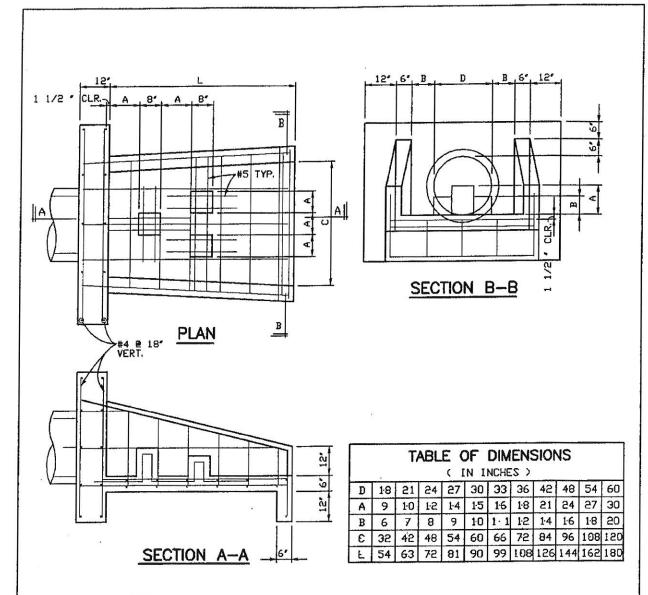
CONCRETE HEADWALL

DRAWING NO.: DR-152

SCALE: NONE

CITY OF MT. JULIET

PUBLIC WORKS DEPARTMENT

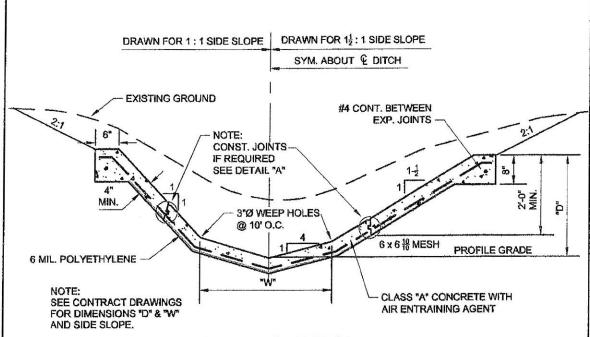


NOTES:

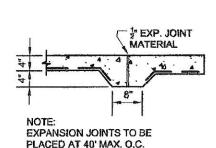
- 1. 1/2 " CHAMFER ON ALL EXPOSED EDGES OF CONCRETE.
- 2. ALL REINF. STEEL SHOWN TO BE #4 @ 12" EACH WAY, W/ 2" MIN. CLEARANCE TYP. U. D. N.
- 3. CONCRETE SHALL BE CLASS "A", 4000 P.S.I. @ 28 DAYS WITH ADEQUATE REINFORCING PER STATE OF TENNESSEE STANDARDS FOR PIPE LARGER THAN 30".
- 4. ENERGY DISSIPATING WINGWALL AS SUPPLIED BY CUSTOM DESIGN STRUCTURES, INC. WITH EROSION CONTROL BLANKET GUARANTEED TO PREVENT DOWNSTREAM EROSION FOR 25 YEAR DESIGN STORM IS AN APPROVED EQUAL.

ENERGY DISSIPATING HEADWALL DETAIL

DETAIL DR-153 SCALE: NONE



TYPICAL SECTION NOT TO SCALE

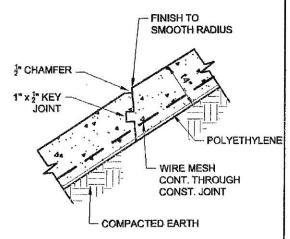


TYPICAL SECTION AT EXPANSION JOINTS

NOT TO SCALE

NOTE:

- 1. TRANSVERSE GROOVE MARKING TO BE PLACED IN TOP OF CONCRETE AT 10' O.C. BETWEEN EXPANSION JOINTS.
- 2. TOP SURFACE OF CONCRETE LINING TO HAVE A LIGHT, BROOM FINISH.



DETAIL "A" NOT TO SCALE

CONSTRUCTION JOINTS SHALL BE USED ONLY WHERE DEPTH OF LINING PERMITS A MINIMUM DEPTH OF 2'-0" OF LINING ABOVE THE JOINTS AS SHOWN IN TYPICAL SECTION ABOVE.

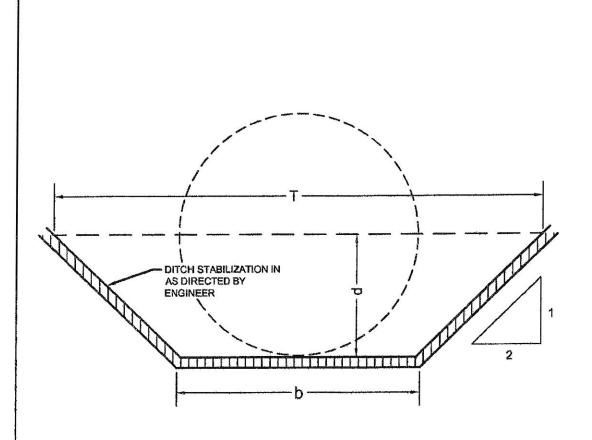
CONCRETE LINED DITCH

DRAWING NO.: DR-160

SCALE: NONE

CITY OF MT. JULIET

PUBLIC WORKS DEPARTMENT



b = PIPE DIAMETER + 2 FEET

T = b + 4d

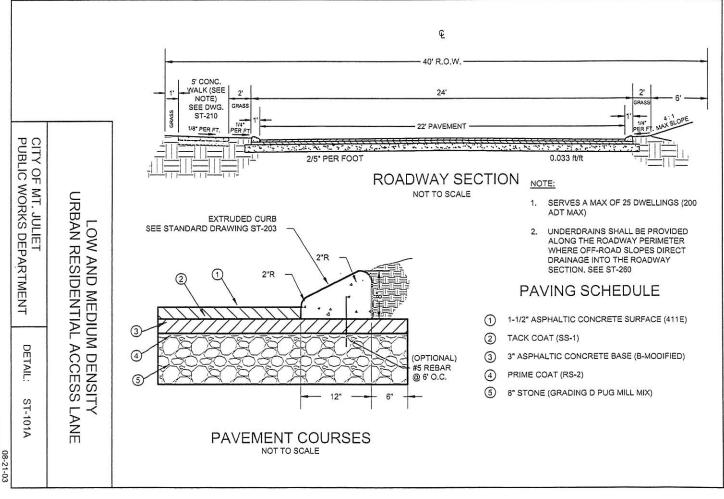
d = 1/2 PIPE DIAMETER

TYPICAL STABILIZED DITCH SECTION

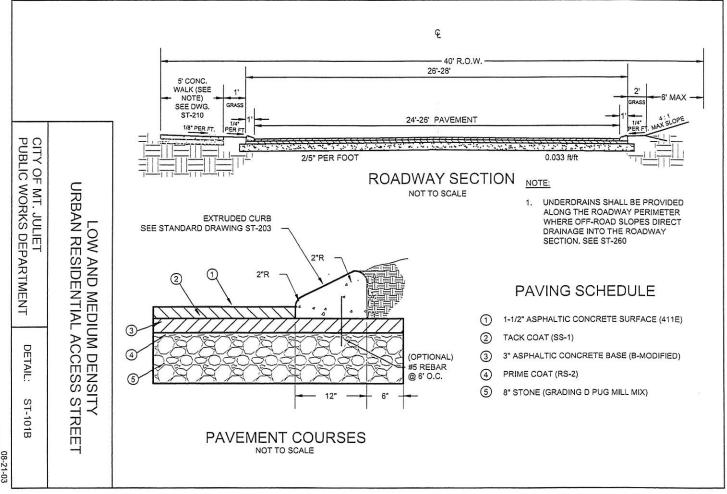
DETAIL NO.: DR-161 SCALE: NONE

CITY OF MT. JULIET

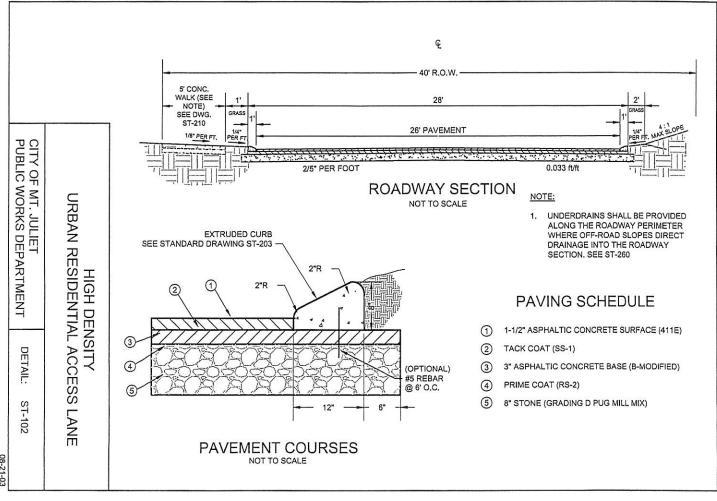
PUBLIC WORKS DEPARTMENT



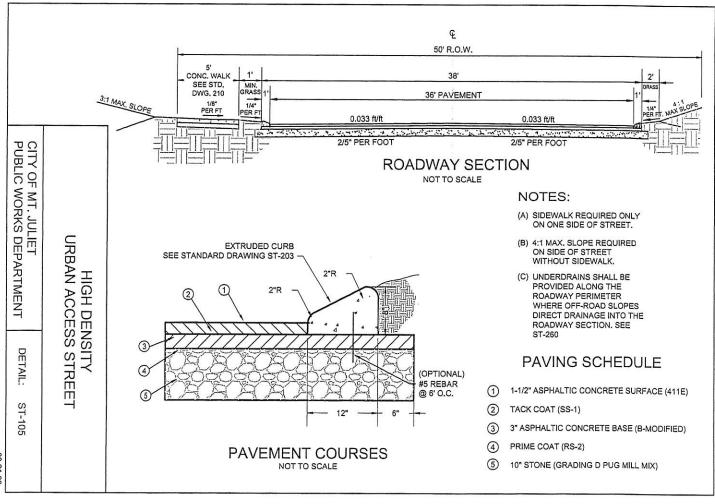
08-21-03 REVISED 05-23-13



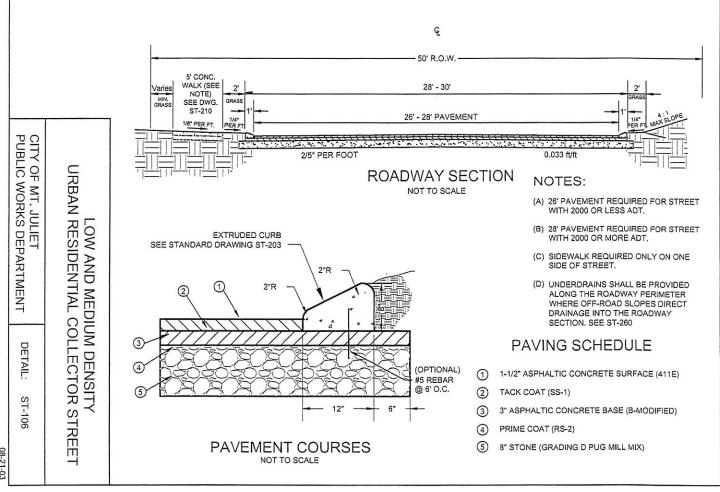
08-21-03 REVISED 05-23-13



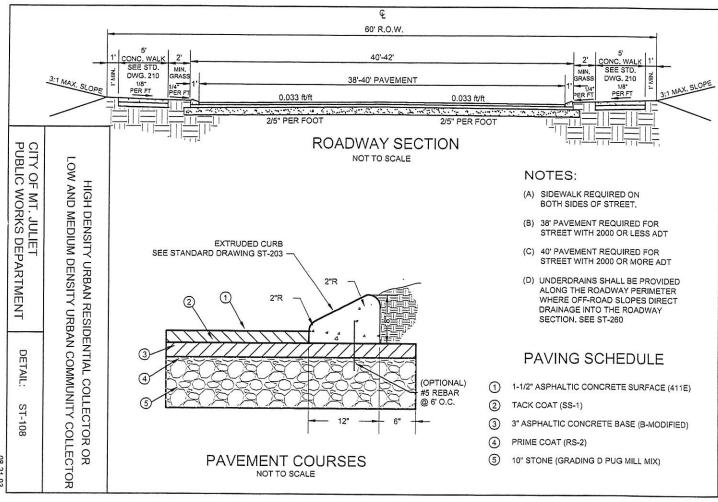
08-21-03 REVISED 05-23-13 REVISED 04-09-14



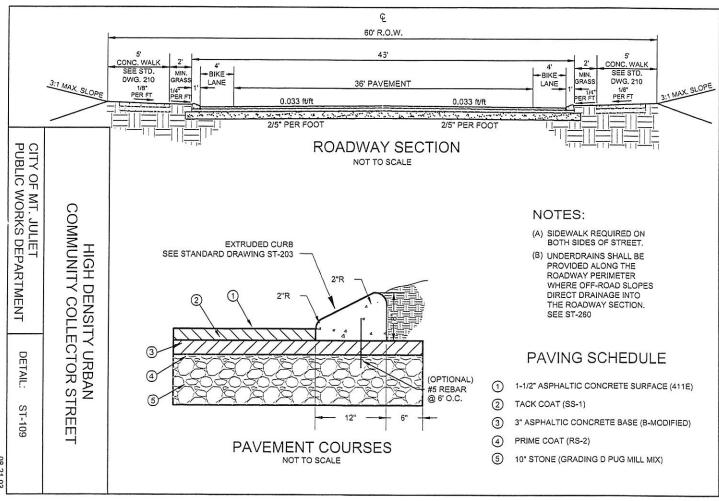
08-21-03 REVISED 05-23-13 REVISED 04-09-14



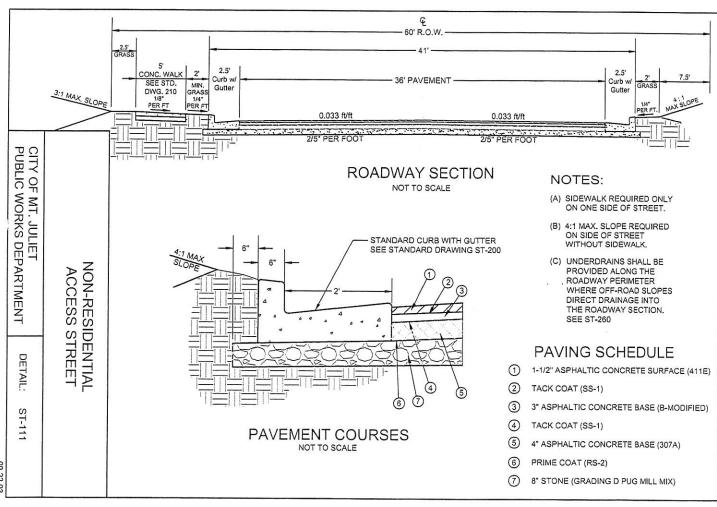
08-21-03 REVISED 05-23-13 REVISED 04-09-14



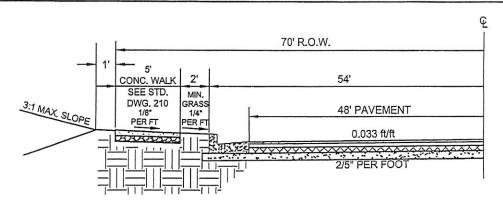
08-21-03 REVISED 05-23-13



08-21-03 REVISED 05-23-13

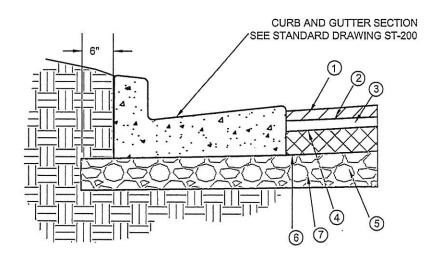


09-22-03 REVISED 05-23-13 REVISED 04-09-14



ROADWAY HALF SECTION

NOT TO SCALE



PAVEMENT COURSES

NOT TO SCALE

PAVING SCHEDULE

- 1-1/2" ASPHALTIC CONCRETE SURFACE (411E)
- 2 TACK COAT (SS-1)
- (3) 2" ASPHALTIC CONCRETE BASE (B-MODIFIED)
- (4) TACK COAT (SS-1)
- 5 4" ASPHALTIC CONCRETE BASE (307A)
- 6 PRIME COAT (RS-2)
- 7 8" STONE (GRADING D PUG MILL MIX)

NOTES:

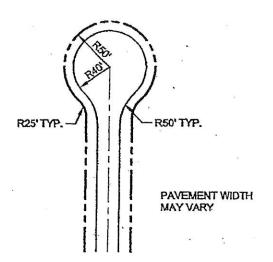
- (A) SIDEWALK REQUIRED ON BOTH SIDES OF STREET.
- (B) RIGHT-OF-WAY SHOWN IS MINIMUM REQUIRED.

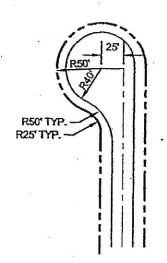
NON-RESIDENTIAL COMMUNITY COLLECTOR

CITY OF MT. JULIET
PUBLIC WORKS DEPARTMENT

DETAIL:

ST-112





STANDARD CUL-DE-SAC DETAIL

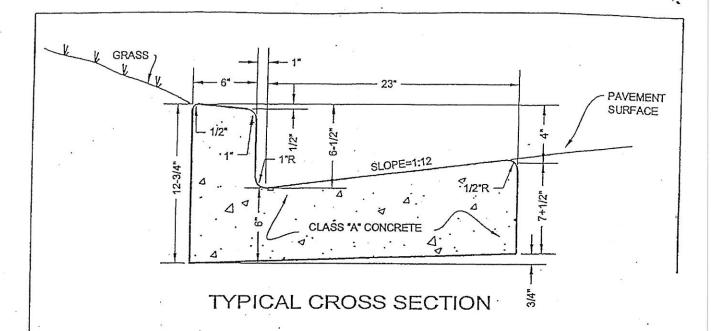
OFFSET CUL-DE-SAC DETAIL

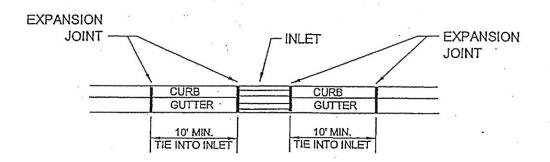
FOR RIGHT-OF-WAY = 50° FOR RIGHT-OF-WAY = 40°

CUL-DE-SAC DETAILS

DRAWING NO. ST-121

SCALE: NONE





FRONT VIEW

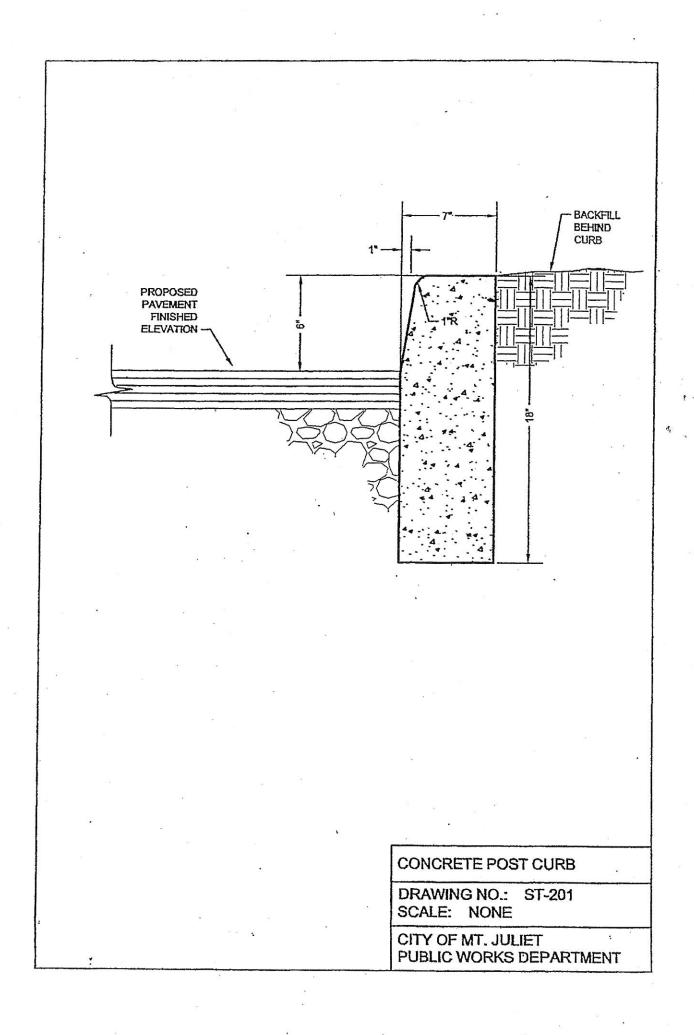
GENERAL NOTES:

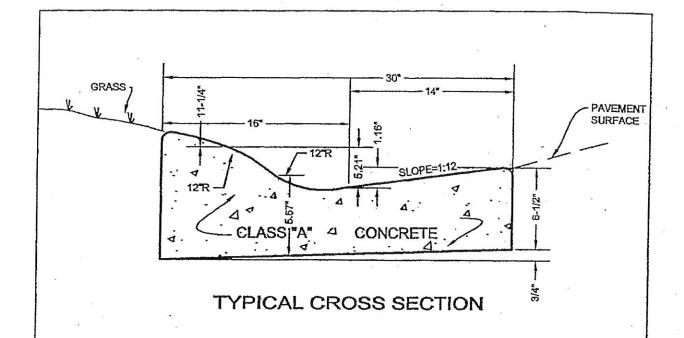
- EXPANSION JOINTS TO BE SPACED A MAXIMUM OF 100 FEET APART OR AS DIRECTED BY THE ENGINEER.
- EXPANSION JOINTS WILL ALSO BE REQUIRED AT TANGENT POINTS, RAMPS, AND INLETS.
- 3. CONTRACTION JOINTS ARE TO BE CUT INTO CURB AND GUTTER EVERY TEN (10) FEET TO A DEPTH OF D/4, WHERE D EQUALS THE THICKNESS OF THE SECTION. THE SPACING OF TEN FEET MAY BE REDUCED AT CLOSURES BUT NO SECTION OF CURB AND GUTTER SHALL BE LESS THAN SIX FEET.
- 4. THERE WILL BE A MINIMUM OF TEN (10) FEET TIE IN AT CURB INLETS ON EACH SIDE OF THE INLET. AN EXPANSION JOINT WILL BE USED ON EACH SIDE OF THE TIE IN.
- COST OF JOINTS TO BE INCLUDED IN THE UNIT BID PRICE FOR CONCRETE CURB AND GUTTER:
- 6. FOR USE ON NON-RESIDENTIAL STREETS.

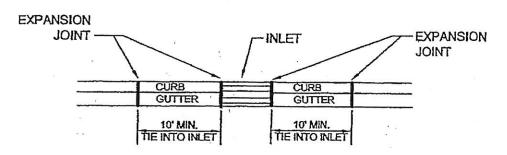
STANDARD CURB WITH GUTTER

DRAWING NO. ST-200

SCALE: NONE







FRONT VIEW

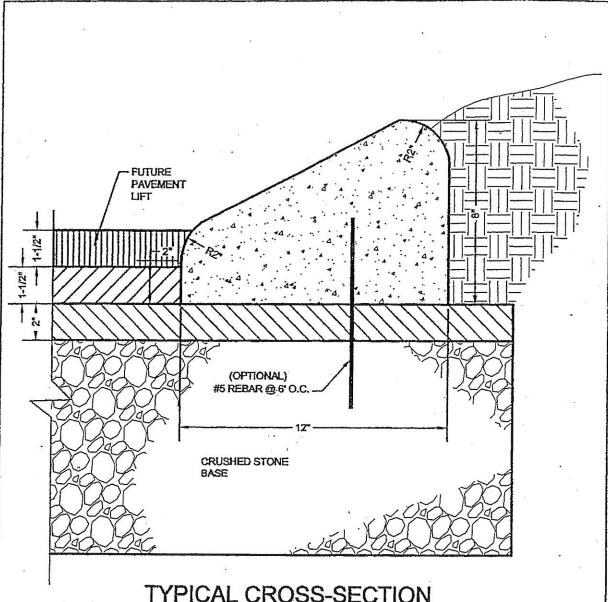
GENERAL NOTES:

- EXPANSION JOINTS TO BE SPACED A MAXIMUM OF 100 FEET APART OR AS DIRECTED BY THE ENGINEER.
- EXPANSION JOINTS WILL ALSO BE REQUIRED AT TANGENT POINTS, RAMPS, AND INLETS.
- 3. CONTRACTION JOINTS ARE TO BE CUT INTO CURB AND GUTTER EVERY TEN (10) FEET TO A DEPTH OF DIA, WHERE D EQUALS THE THICKNESS OF THE SECTION. THE SPACING OF TEN FEET MAY BE REDUCED AT CLOSURES BUT NO SECTION OF CURB AND GUTTER SHALL BE LESS THAN SIX FEET.
- 4. THERE WILL BE A MINIMUM OF TEN (10) FEET TIE IN AT CURB INLETS ON EACH SIDE OF THE INLET. AN EXPANSION JOINT WILL BE USED ON EACH SIDE OF THE TIE IN.
- COST OF JOINTS TO BE INCLUDED IN THE UNIT BID PRICE FOR CONCRETE CURB AND GUTTER.
- 6. MT. JULIET STANDARD PRIOR TO JULY 17, 2003.

MOUNTABLE CURB WITH GUTTER

DRAWING NO.: ST-202

SCALE: NONE



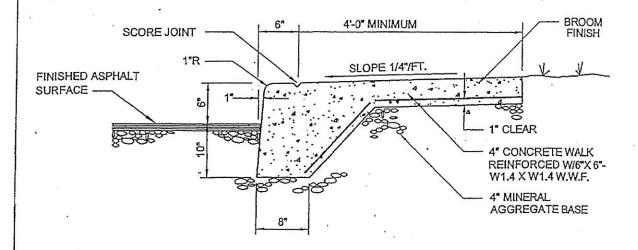
TYPICAL CROSS-SECTION

GENERAL NOTES:

- 1. WHERE CONCRETE MEDIAN PAVEMENT IS POURED BEHIND EXTRUDED 8-INCH CONCRETE CURB, IT MAY BE POURED MONOLITHICALLY WITH THE CURB.
- 2. THE EXTRUDED 8-INCH CONCRETE CURB IS TO BE USED AS THE STANDARD FOR RESIDENTIAL STREETS AND ROADS.
- 3. WHERE CURB INLETS ARE REQUIRED, USE JOHN BOUCHARD & SONS CO. GRATE NOS. 3103 OR 3103-V, OR APPROVED & EQUAL
- 4. MT. JULIET STANDARD FOR RESIDENTIAL STREETS, ADOPTED 07/17/2003.
- 5. RESIDENTIAL DRIVEWAYS: CURB TO BE CUT TO CONFORM TO STANDARD DRAWING NO. ST-313.

HIGH PROFILE EXTRUDED CURB

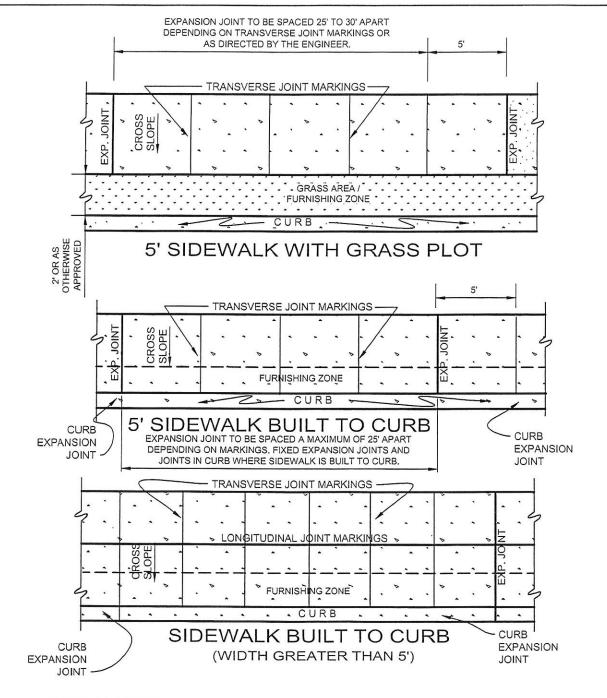
DRAWING NO. ST-203 SCALE: NONE



PROVIDE CONTROL JOINTS PER DETAIL ST-213 SPACED EVERY 5 FT. AND EXPANSION JOINTS PER DETAIL ST-213 EVERY 20 FT.

CONCRETE SIDEWALK AND HAUNCHED CURB

DETAIL NO.: ST-204 SCALE: NONE



GENERAL NOTES:

- 1. SIDEWALKS SHALL BE A MINIMUM OF 4 INCHES IN THICKNESS AND MAINTAIN A MINIMUM OF 4 FEET CLEARANCE THROUGH THE PATH OF TRAVEL.
- 2. MAXIMUM CROSS SLOPE FOR SIDEWALKS SHALL NOT EXCEED 1:48 (VERTICAL:HORIZONTAL).
- SIDEWALK SHALL BE CONSTRUCTED OF WHITE CONCRETE PER DEPARTMENT OF PUBLIC WORKS TECHNICAL SPECIFICATIONS.
- 4. WHERE A GRASS AREA IS NOT PROVIDED, A MAXIMUM OF 2 FEET FURNISHING ZONE IS REQUIRED, MAINTAINING A MINIMUM OF 4 FEET CLEARANCE THROUGH THE PATH OF TRAVEL.

DRAWING NO.: ST-210 SCALE: NONE

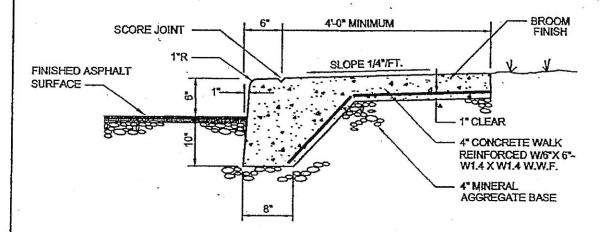
NOTES:

- CURB RAMPS SHALL BE PROVIDED TO ALLOW ALL USERS TO-MAKE THE TRANSITION IN GRADE FROM THE STREET TO THE SIDEWALK.
- 2. CURB RAMPS SHALL BE CONSTRUCTED TO THE DIMENSIONS AND FINISHED ELEVATIONS AS SPECIFIED IN THE PLANS AND/OR CONTRACT DOCUMENTS AND SHALL ALSO CONFORM TO THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT. SURFACE TEXTURE OF THE CURB RAMP SHALL BE STABLE, FIRM, AND SLIP-RESISTANT. THE SURFACE SHALL BE COARSE-BROOMED FINISH TRANSVERSE TO THE SLOPE OF THE RAMP. CARE SHALL BE TAKEN TO ASSURE A UNIFORM GRADE ON THE CURB RAMP. LONGITUDINAL AND TRANSVERSE JOINT MARKINGS SHALL NOT BE ALLOWED ON THE LANDINGS OR RAMPS.
- 3. DRAINAGE AND UTILITY STRUCTURES SHALL NOT BE PLACED IN CURB RAMP OR LANDING.
- 4. THE GUTTER LINE PROFILE OF THE STREET SHALL BE MAINTAINED THROUGH THE AREA OF THE CURB RAMP.
- 5. THE FURNISHING ZONE BUFFERS PEDESTRIANS FROM THE ADJACENT ROADWAY AND IS ALSO AN AREA WHERE ELEMENTS SUCH AS MAIL BOXES, STREET TREES, SIGNAL POLES, UTILITY POLES, STREET LIGHTS, CONTROLLER BOXES, HYDRANTS, SIGNS, PARKING METERS, DRIVEWAY APRONS, GRATES, HATCH COVERS, AND STREET FURNITURE ARE PROPERLY LOCATED.
- A DETECTABLE WARING DEVICE SHALL BE INSTALLED WITHIN CURB RAMPS. SEE ST-303 FOR DETAILS.

STANDARD CURB RAMP NOTES

DRAWING NO.: ST-211

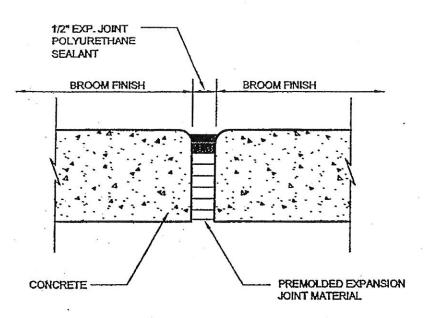
SCALE: NONE



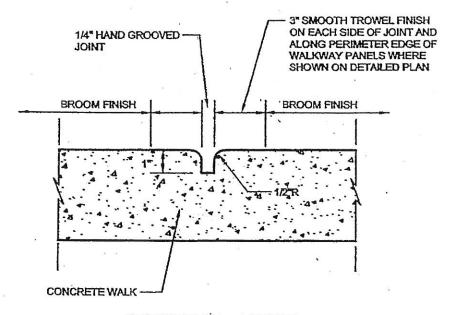
PROVIDE CONTROL JOINTS PER DETAIL ST-213 SPACED EVERY 5 FT. AND EXPANSION JOINTS PER DETAIL ST-213 EVERY 20 FT.

HAUNCHED CURB AND CONCRETE SIDEWALK (RES.)

DETAIL NO.: ST-212 SCALE: NONE



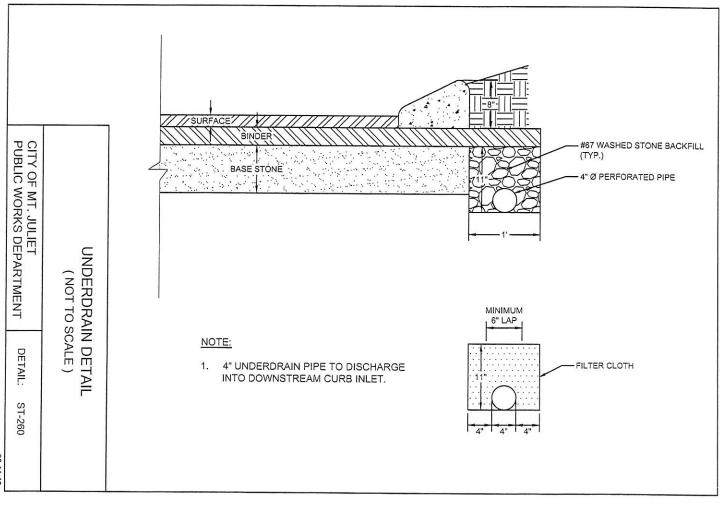
EXPANSION JOINT



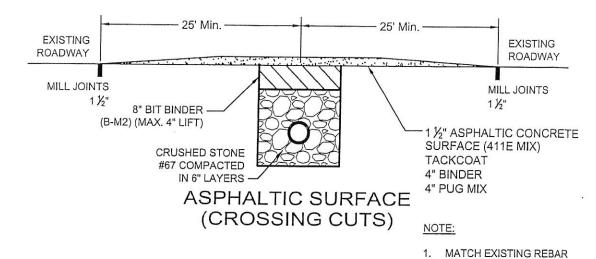
CONTROL JOINT

EXPANSION JOINT CONTROL JOINT

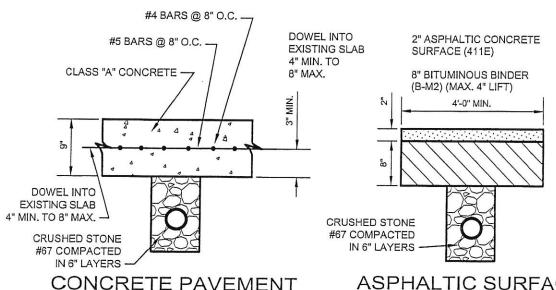
DETAIL NO.: ST-213 SCALE: NONE



06-11-13 REVISED 09-17-13 REVISED 04-09-14



 MATCH EXISTING REBAR WITH MINIMUM SHOWN.



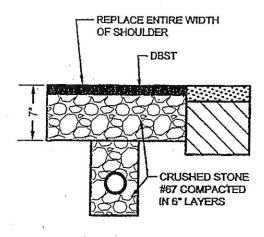
GENERAL NOTES:

- ALL WORK SHALL BE FIELD CHECKED AND APPROVED BY THE PUBLIC WORKS DEPARTMENT PRIOR TO ITS BEGINNING AND AFTER COMPLETION THEREOF.
- INSPECTION PERSONNEL OF THE DEPARTMENT SHALL BE NOTIFIED AT LEAST TWO (2) DAYS PRIOR TO COMMENCING WORK.
- 3. THE WORK PERFORMED SHALL BE FREE FROM WORKMANSHIP DEFECTS FOR A PERIOD OF ONE (1) YEAR AFTER COMPLETION.
- 4. EXISTING PAVEMENTS, BASES, CURBS & GUTTERS AND SIDEWALKS SHALL BE CUT AND BROUGHT TO A NEAT LINE BY USE OF AN AIR HAMMER, SAW OR OTHER SUITABLE EQUIPMENT. EXPANSION JOINTS REMOVED SHALL BE REPLACED.
- 5. THE MINIMUM WIDTH TO BE TRIMMED ON EACH SIDE OF THE TRENCH LINE, AS SEEN IN THE SECTION, MAY BE WAIVED OR AMENDED UPON APPROVAL OF THE INSPECTOR; HOWEVER, A MINIMUM WIDTH OF REPLACEMENT SHALL BE 4'-0" TO ALLOW FOR PROPER COMPACTION.

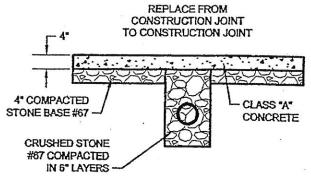
- ASPHALTIC SURFACE (PARALLEL CUTS)
- IF PERMANENT PAVEMENT REPAIRS CANNOT BE MADE WITHIN THREE (3) DAYS, THEN TEMPORARY REPLACEMENT SHALL BE MADE WITH 2" COLD MIX OR HOT BITUMINOUS SEAL COAT OVER COMPACTED CRUSHED STONE.
- ALL EXCAVATIONS MADE WITHIN PUBLIC RIGHT-OF-WAY REQUIRE EXCAVATIONS AND STREET CLOSURE PERMITS FROM THE PUBLIC WORKS DEPARTMENT PRIOR TO COMMENCING WORK.
- 8. FLOWABLE FILL SHALL MEET THE REQUIREMENTS IN TENNESSEE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS SECTION 204.
- PROFILE MILL AND OVERLAY ROADWAY 25' EACH WAY FROM CENTER OF CUT UNLESS OTHERWISE NOTED.

TRENCH REPAIR WITHIN ROADWAY

DRAWING NO.: ST-270 SCALE: NONE







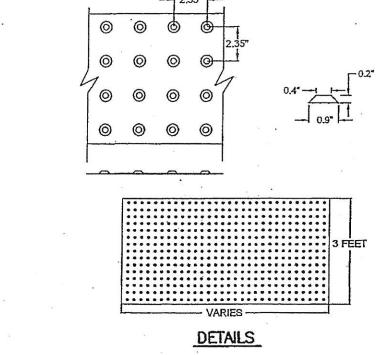
SIDEWALK REPLACEMENT

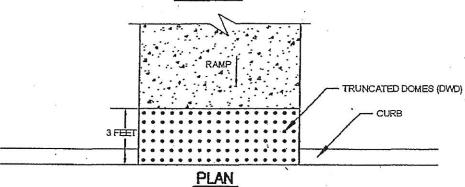
GENERAL NOTES:

- ALL WORK SHALL BE FIELD CHECKED AND APPROVED BY THE PUBLIC WORKS DEPARTMENT PRIOR TO IT'S BEGINNING AND AFTER COMPLETION THEREOF.
- INSPECTION PERSONNEL OF THE DEPARTMENT SHALL BE NOTIFIED AT LEAST TWO (2) DAYS PRIOR TO COMMENCING WORK.
- THE WORK PERFORMED SHALL BE FREE FROM WORKMANSHIP DEFECTS FOR A PERIOD OF ONE (1) YEAR AFTER COMPLETION.
- 4. EXISTING PAVEMENTS, BASES, CURBS & GUTTERS, AND SIDEWALKS SHALL BE CUT AND BROUGHT TO A NEAT LINE BY USE OF AN AIR HAMMER, SAW, OR OTHER SUITABLE EQUIPMENT. EXPANSION JOINTS REMOVED SHALL BE REPLACED.
- 5. THE MINIMUM WIDTH TO BE TRIMMED ON EACH SIDE OF THE TRENCH LINE AS SEEN IN THE SECTION MAY BE WAIVED OR AMENDED UPON APPROVAL OF THE INSPECTOR; HOWEVER, A MINIMUM WIDTH OF REPLACEMENT SHALL BE 4'-0" TO ALLOW FOR PROPER COMPACTION.
- 6. IF PERMANENT PAVEMENT REPAIRS CANNOT BE MADE WITHIN THREE (3) DAYS, THEN TEMPORARY REPLACEMENT SHALL BE MADE WITH 2" COLD MIX OR HOT BITUMINOUS SEAL COAT OVER COMPACTED CRUSHED STONE.
- ALL EXCAVATIONS MADE WITHIN PUBLIC RIGHT-OF-WAY REQUIRE EXCAVATIONS AND STREET CLOSURE PERMITS FROM THE PUBLIC WORKS DEPARTMENT PRIOR TO COMMENCING WORK

TRENCH REPAIR
OUTSIDE ROADWAY

DETAIL NO.: ST-271 SCALE: NONE



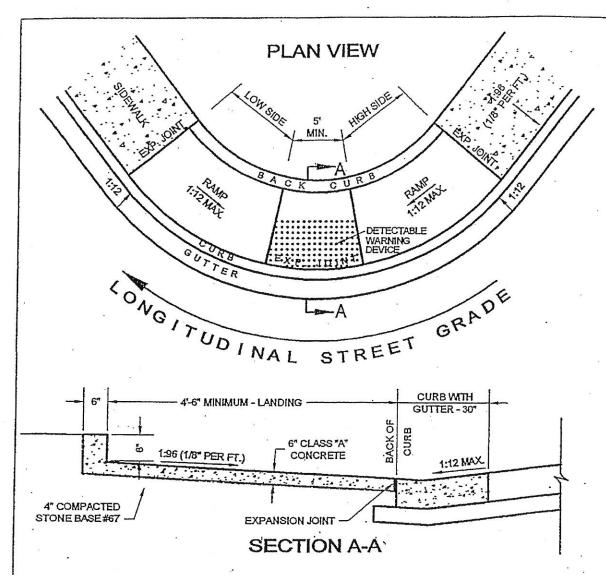


- 1. DETECTABLE WARNINGS SHALL BE OF MANUFACTURES SPECIFICATIONS AND MEET ADA REQUIREMENTS.
- 2. WIDTH OF DETECTABLE WARNING AREA SHALL BE A MINIMUM OF 4 FEET AND VARY WITH WIDTH OF RAMP.
- 3, LENGTH OF DETECTABLE WARNING AREA SHALL BE 2 FEET REGARDLESS OF SECTION WIDTH.
- 4. DETECTABLE WARNING DOMES SHALL BE ALIGNED ON A SQUARE GRID IN THE PREDOMINANT DIRECTION OF TRAVEL TO PERMIT WHEELS TO ROLL BETWEEN DOMES.
- 5. THE MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF WALKING SERVICE.
- 6. DETECTABLE WARNINGS USED ON INTERIOR SURFACES SHALL DIFFER FROM ADJOINING WALKING SURFACES IN RESILIENCY OR SOUND-ON-CANE CONTACT.
- 7. THE MATERIAL USED TO PROVIDE CONTRAST SHOULD CONTRAST BY AT LEAST 70 %. CONTRAST IN PERCENT IS DETERMINED BY:

CONTRAST = [(B1-B2)] x 100
WHERE B1 = LIGHT REFLECTANCE VALUE (LRV) OF THE LIGHTER
AREA AND B2 = LIGHT REFLECTANCE VALUE (LRV) OF THE
DARKER AREA. (NOTE THAT IN ANY APPLICATION BOTH WHITE
AND BLACK ARE NEVER ABSOLUTE, THUS, B1 NEVER EQUALS 100
AND B2 IS ALWAYS GREATER THAN 0.

DETECTABLE WARNING DEVICE TRUNCATED DOMES

DETAIL ST 303 SCALE: NONE



GENERAL NOTES:

- 1. LANDING SHALL BE FLUSH WITH THE GUTTER OR EDGE OF PAVEMENT.
- 2. CROSS-SLOPE OF LANDING AND OF SIDEWALK SHALL NOT EXCEED 1:48 (VERTICAL:HORIZONTAL).
- SURFACE TEXTURE OF THE CURB RAMP SHALL BE STABLE, FIRM, AND SLIP-RESISTANT. THE SURFACE SHALL BE COARSE-BROOMED FINISH TRANSVERSE TO THE SLOPE OF THE RAMP.
- 4. BACK CURB HEIGHT ALONG RAMPS SHALL TRANSITION FROM ZERO (0) INCHES AT EXPANSION JOINTS TO SIX (6) INCHES AT LANDING AND SHALL BE A CONSTANT HEIGHT OF SIX (6) INCHES THROUGH LANDING, CROSS-SLOPE (BACK TO FRONT) OF TOP OF BACK CURB SHALL BE THE SAME AS SIDEWALK CROSS-SLOPE.
- HIGH SIDE AND LOW SIDE RAMPS SHALL HAVE A MAXIMUM SLOPE OF 1:12 (VERTICAL:HORIZONTAL) AND SHALL NOT BE REQUIRED TO EXCEED EIGHT (8) FEET (96 INCHES) IN LENGTH.
- 6. SEE DRAWING NO. ST-303 FOR DETECTABLE WARNING DEVICE DETAILS.

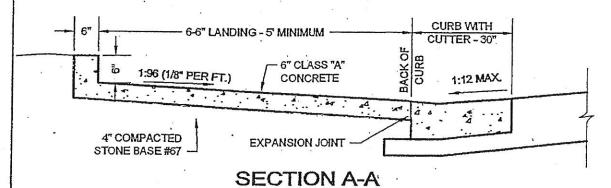
PARALLEL CURB RAMP

DRAWING NO. ST-304

SCALE: NONE

PLAN VIEW HIGH SIDE . 5 MIN. -- LOW SIDE -**BACK CURB** 1:96 JOINT (1/8" PER FT.) SIDEWALK RAMP RAMP · SIDEWALK 4 LANDING 1:12 MAX. 1:12 MAX. DETECTABLE WARNING 1:96 GRASS AREA (1/8" PER FT.) ĞRASS AREÂ/ DEVICE FURNISHING ZONE FURNISHING ZONE CURB EXP. JOINT CURB **GUTTER** 1:12 MAX. - A

LONGITUDINAL STREET GRADE



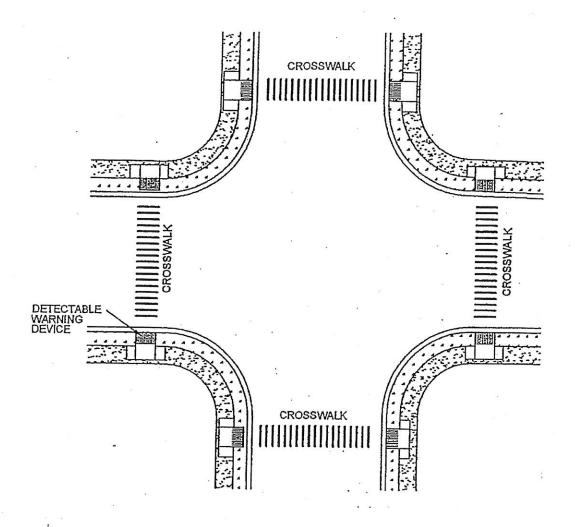
GENERAL NOTES:

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- 1. LANDING SHALL BE FLUSH WITH THE GUTTER OR EDGE OF PAVEMENT.
- CROSS-SLOPE OF LANDING AND OF SIDEWALK SHALL NOT EXCEED 1:48 (VERTICAL:HORIZONTAL).
- 3. SURFACE TEXTURE OF THE CURB RAMP SHALL BE STABLE, FIRM, AND SLIP-RESISTANT. THE SURFACE SHALL BE COARSE-BROOMED FINISH TRANSVERSE TO THE SLOPE OF THE RAMP.
- 4. BACK CURB HEIGHT ALONG RAMPS SHALL TRANSITION FROM 0 INCHES AT EXPANSION JOINTS TO 6 INCHES AT LANDING AND SHALL BE A CONSTANT HEIGHT OF 6 INCHES THROUGH LANDING. CROSS-SLOPE (BACK TO FRONT) OF TOP OF BACK CURB SHALL BE THE SAME AS SIDEWALK CROSS-SLOPE.
- 5. HIGH SIDE AND LOW SIDE RAMPS SHALL HAVE A MAXIMUM SLOPE OF 1:12 (VERTICAL:HORIZONTAL) AND SHALL NOT BE REQUIRED TO EXCEED 8 FEET (96 INCHES) IN LENGTH.
- 6. SEE DRAWING NO. ST-303 FOR DETECTABLE WARNING DEVICE DETAILS.

PARALLEL CURB RAMP WITH A DROP LANDING 2' GRASS STRIP

DETAIL: ST-305 SCALE: NONE



GENERAL NOTES:

- 1. SEE CURB RAMP STANDARD DRAWINGS FOR CONSTRUCTION DETAILS.
- CURB RAMPS AT MARKED CROSSINGS SHALL BE WHOLLY CONTAINED WITHIN THE MARKINGS.
- 3. ALL MARKINGS TO CONFORM TO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- 4. SEE DRAWING NO. ST-303 FOR DETECTABLE WARNING DEVICE DETAILS.

CURB RAMPS AT MARKED CROSSINGS

DETAIL NO.: ST-306 SCALE: NONE

